## LIST OF THE MYRIAPODS FOUND IN ESCAMBIA COUNTY, FLORIDA, WITH DESCRIPTIONS OF SIX NEW SPECIES.

Hy JEROMLE MCNERLI.
(With one plate.)
The Myriapods which furnished the material for this paper were eolleeted by Mr. Charles H. Bollman during the months of March anul April, 1836, on the shores of Pensacola Bay. The collection contams four hundred specimens, and is in Mr. Bollman's possession. Six of the species appear to be new to science.

1. Polydesmus bimaculatus, n. sp., P]. xi, figs. 3, 4, and 5.

Obscure olive or chestnut, the scuta generally marked mith an iudis. tinct transverse dark band, with lighter color towards the margins; a well-tefined oval spot of gray is frequently present on the lateral margins; lateral lamine with a narrow piuk border.

In the foung the color is white with a couspicuons black dorsal band. The color becomes gradually darker as the animal grows, and the band finally becomes indistinet or obsolete. Venter and legs yellow. Head dark except a narrow border around the cephalic margin; vertex furrow strongly pronounced and labrum emarginate.

Antenure pilose, especially distad.
Caudal scuta rapidly contracted.
Anal scutum prolouged, acute, and apex subtruncate.
The male appendages consist of two pairs of spines placed on low tumuli, which are sunk below the surrounding surface.

The larger pair of spines are somewhat twisted and cat distad into two broad, thin processes.

The caulal surfaces of these spines are completely covered to the furcation with a very long, buslyy growth of hair. The second pair of spines are cepbalad to the first and spring from their base. This pair is smooth, very slender, acute, and nearly as loug as the first pair.

Length, $34^{\mathrm{mm}} .5$; width, $7^{\mathrm{mm}}$.
This description is based upon thirty or more specimens of varions ages and both sexes.

Habitat.-Peusacola, Fla. Mr. Charles H. Bollman.
This is the common form of Polydesmus. It resembles Polydesmus erythropygus in its habits, but differs from it decidedly in form, color, size, and in the genitalia.
2. Polydesmus varius, n. sp., Pl. xi, figs. 1 and 2.

Varied with red, black, and white, dorsum with a conspicnons mesal line.

Each seutum has its caudal half blackish with a white spot on each side of the mesal line; cephalic half yellow varied with darker color
and with one red spot on each side of the mesal line. The vertex furrow is very plain and the rertex is beantifully marked with a retiendation of black on a yellowish-white ground.

The labrum is very deeply emarginate with a fringe of long lairs; the antenne are white and pilose with somewhat silky hairs.

The venter is yellowish, mottled with brown. The legs are yellowish white, almost hairless proximad but moderately pilose distad, the first two joints without spinous processes.

The anal seutum is large, subtriangular, somewhat depressed, apex truncate, the caudo-lateral margins strongly concare and armed with very long hairs.

The female genitalia consist of two flattened pyramidal processes contiguous to each other and with openings mesad.

Length, $15^{\mathrm{mm}}$.
Habitut.-Pensacola, Fla. Charles H. Bollman.
I had three specimens, all females.
3. Polydesmus canadensis Newport.

This species was most aburdant in the neighborhood of Titi swamps. All the specimens found were very dark chestnut or black. They are also notably different from the species found in Iudiana in form and size, being uniformly smaller, with the ends of the body tapering more gradually, but they agree well in the form of the genitalia.
4. Lisiopetalum eudasum McNeill.

A few specimens of this species, which has hitherto onls been reported from Indiana, were fomud. The specimens found agree well with the published descriptions.

## 5. Julus impressus Say.

This species was found abundant. The specimens do not differ materially firom indiciduals of the same species in the Central States.
6. Julus lineatus, n. sp.

Color rarying from deep fellow to deep haow with a series of brown spots along each side of the dorsum, very large and conspicuous in the light-colored specimens, becoming obsolete in the vers dark ones.

Tertex furrow wanting. Segments, 38-4ン. Scutal smooth dorsad, canalienlate ventrad.

Ocelli 8 or 9 in each series in one decurved line which reaches almost to the base of the antenne.

Antenne pilose, the first joint suborbicular, the succeeding four clavate, the serond being four times as long is it is thick at the distal end, the fifth being as long as it is wide at the distal end, the sixth joint is cylindrical, and the seventh subconical and very short.

The labrum is slightly marginate with a double row of hairs around its margin. The al seutum is triangular and without amuero, and with a few long hans around its candal margiu.

The anal plates are each armed with four long hairs.
Length, $12^{\text {mm }}$.
Habitat.-Pensacola, Fla. Charles II. Bolìman.
I had six specimens.
7. Spirobolus uncigerus Wood.

This species was common muder loose material in the neighborhood of swamps. The segments vary in number from 48 to 51 ; the ocelli are almost complanate.
8. Mecistocephalus foveatus McNeill.

Three specimens were found which agree with the description of this species published by the writer.
9. Schendyla? perforatus, n. sp., Pl. xi, figs. 6 and 7.

Rather robust, gradually attemuated cephalad, rapidly and rery decidedly attenuated caudad, sparsely pilose with long laairs; yellow, head orange.

The mandibles are deeply punctate, armed with four not very distinct teeth, the basal joint four-fifths as wide as long, steruum deeply emarginate and coarsely and broadly punctate.

Cephalic lamina length, $1^{\mathrm{mm}} .15$; width, 1.03 ; deeply aud coarsely punctate; cephalic and candal margins truncate; sides evenly curved.

Prebasal lamina concealed.
Basal lamina three times as wide as long with the lateral margins converging cephalad.

Antennce pilose with long lairs, the articles gradually diminishing in length distad.

Dorsum bisnlcate. Præscnta narrow cephalad, broader candad.
Stema, except the last, trisulcate.
Prasterna cephalad are wider laterad than mesad; caudad half as broad as the sterna.

The last sterua pilose with one mesal sulea, the lateral margins slightly converging, caudal angles rounded and caudal margin slightly emarginate.

The last prescuta with a deep mesal groove and two shallow lateral grooves.

Spiracles round, larger cephalad.
First pair of feet very little shorter than the second pair.
Feet very slightly pilose.
Anal coxa slightly, inflated, with two very large pores, the candal one exposed, the one cephalad partly concealed by the last sterna.

Anal feet more than twice as long as the penultimate pair, rather densely piluse, and elaw obsolete.

Pairs of feet of the female sixty-one.
Length, $48^{\text {min }}$; width, $1^{\mathrm{mm}} . \overline{\text {. }}$.
Hrelitat.-Pensacola, Fla. Charles H. Bollmas

I had a single specimen, female. I place this species in the genus Schendyla with some hesitation, but having only a single specimen it is impossible to determine the character of the mouth parts by dissection.
10. Scolopendra woodii Meinert.

A single specimen belonging to this species was fonnd.
11. Scolopendra viridis Meinert.

This species was foumd abmelantly.
12. Scolopocryptops sexpinosa Say.

The specimens found agree well with Wood's Scolopocryptops spinicauda, but $\bar{I}$ agree with Minert in miting this species with sexpinosa.
13. Opisthemega crassipes? Meinert.

I have not fully identified this species; the prosternal teeth, in the specimens I examined, were often 6 or $S$ on a side and very irregular in size, and in the more mature individuals often run together. The two candal pairs of legs had the tibia aud first tarsal joint unarmed. Meinert appears to say only the anal pair are without tibial and tarsal spines. The antenure are pubescent.

This form of Scolopendride occurs as abundantly abont Pensacola as S. sexpinosa does in Indiana, while the latter form oceurs as rarely there as $O$. crassipes occurs here.

## 14. Cryptops asperites Wood.

Specimens belonging to this species agree well with Wood's description, with the exception that the joints of the antemme alwars number seventeen instead of mineteen.
15. Litnobius mordax Koch.

This seems to be the common form of the Lithobiade.
16. Lithobius clarus n . sp .

Caudal angles of the $7 ., 9 ., 11 ., 13$ seuta produced.
The anal feet each armed with a single claw.
Coxal pores few, arranged in a single series.
Pemultimate feet armed with three claws.
Coxze of the anal feet armed with a spine.
The claw of the female genitalia three-cleft.
Yellowish brown or chestnut, renter and feet orange or paler than dorsum, rather slender. Scute polished, smooth cephalad, rery slightly rugose and pilose caudad. Venter very pilose catdad with long hairs. Antennæ pilose, 31-34 articulate. Head about as long as wide.

Ocelli $24-26$ arranged in 5 curved longitudinal liues, $7,5,5,4,3$.
Prosternal teeth $\overline{5}-\overline{\text { s. }}$.
Coxal pores $5,6,6,4$ or $5,5,5,4$ or $4,5,5,3$, romit.
Cephalic pair of feet armed with spines $2,2,1$; anal feet armed with spines $1,3,3,1$.

Anal feet slightly elongated and swollen.

Claw on the female genitalia divided into three acutely pointed lobes. Clars of the penultimate feet three, one of the smaller pair sometimes minute or wanting.

Length, $15-1 \overline{7}^{\mathrm{mm}}$.
Habitat.-Pensacola, Fla. Mr. Charles H. Bollman.
This species is a common one about Peusacola.
17. Lithobius aurens, n. sp.

Caudal angles of scuta not produced.
Coxal pores few, arranged in a single series.
Coxer of anal feet each ars ell with a single spine.
Pemultimate feet each armed with three clars.
Yellowish brown, head and anteme reddish, venter and legs paler. Body and legs moderately pilose.

Head obeordate, $1^{\mathrm{mm}} .16$ wide; $1^{\mathrm{mm}} .02$ long. Antenne pilose, short, $2.74^{\mathrm{mm}}$ long, with trenty joints.

Ocelli 13, in three longitudinal straight rows, 3, 6, 4.
Prosternal teeth 2-2, acute, diverging.
Coxal pores 4. 4. 4. 3, round.
Penultimate feet each armed with three clars and $1,3,2,1$ spines.
Claw of the female genitalia three-lobed.
Caudal margins of the scuta elerated in the 1., 3., $5 .$, S $_{\text {., }}$. ., 10.
Candal margins of the scuta straight in the $2 ., 4 ., 6 ., 7 ., 9 ., 11 ., 13$.
Candal margins of the scuta curved in the 1., 3., 5., S., 10., 12., 14., 15.

Caudal angles of the senta subrectangular in the 2., 4., 6., 7 .
Length, $9^{\mathrm{mm}} .5$.
In the two specimens-one male, one female-which I had the anal legs were wanting.

Habitat.-Pensacola, Fla. Mr. Charles H. Bollman.
Entomological Laboratory of Indiana University,
Bloomington, May 4, 1886.

